

Subject Index to Volume 28

A

- Acetylcholine**
activation, intrathoracic ganglionic neurons, H1108
adrenergic and cholinergic responses, bronchial arteries, H156
AV junctional rhythm, heart, H839
cerebral circulation, nitric oxide effects, H1216
cholinergic regulation, coronary blood flow (swine), H109
endothelial dysfunction, heart, H1660
endothelium-dependent dilation, basilar artery, chronic hypertension, H1455
membrane hyperpolarization, endothelium-dependent cerebral vasodilation and, H668
potassium channels sensitive to, atrial myocytes, H1730
pulmonary circulation, EDRF role in, at birth, H1921
- Acetyl coenzyme A**, oxidation, substrate preference, early myocardial reperfusion, H317
- N-Acetyl-L-cysteine**, flow-mediated vasodilation and, H804
- Acidosis**
cerebral blood flow during, arterial pH modulation of, H34
contractile system, skinned fibers, hypertrophied heart, H1044
intracellular, heart and brain nucleotide pools in shock, H1781
respiratory, contractility and intramyocardial pH during (ferret), H843
- Actinomycin D**, protein synthesis, preconditioning and, myocardium, H1822
- Adenosine**
active hyperemia and, soleus and gracilis muscle, H1295
alveolar reactive hyperemia, skeletal muscle, H1313
coronary microvascular response and, during occlusion, H909
interstitial, heart (guinea pig), H1471
regulation, regional cerebral blood flow, sensory cortex, H1703
relaxation mediated by, thoracic aorta, H62
response, ontogeny of, heart and aorta (guinea pig), H1637
transport, transcapillary, heart (guinea pig, rat), H772
- Adenosine deaminase inhibitor**, protective effects, ischemia-reperfusion injury, heart, H835
- Adenosine triphosphatase**
mitochondrial inhibition, ischemia in slow and fast heart rate, H1759
myofibrillar activity, calcium-sensitive, myocardial stunning effects, H813
- Adenosine triphosphate**
depletion
ischemia in slow and fast heart rate, H1759
myocytes, reduced arachidonate metabolism and, H582
nucleotide pools, heart and brain during shock, H1781
- potassium channels sensitive to, G protein effects, heart, H820
potassium fluxes, ventricular myocytes, H962
synthase, regulation, heart, H1264
- Adrenaline: see Epinephrine**
- Adrenal medulla**
function, hemorrhage effects in anesthesia, H1134
oxygen consumption, catecholamine secretion effects, H681
- Adrenal nerve**, activity, hemorrhage effects in anesthesia, H1134
- Adrenergic denervation**, with diabetes mellitus, H55
- Afferents**
cardiac, input to solitary tract nucleus, synaptic mechanism regulation of, H653
muscle, response to static contractions, cyclooxygenase blockade and, H745
- Afterload**, ventricular function and, closed chest, H619
- Aging**
cerebrovascular response and, global ischemia (pig), H1551
erythrocytes, oscillatory shear flow and, H1071
late-onset hypertension, myocardial microvessels, H1681
ventricular remodeling in, severe myocardial dysfunction induced by, H1086
- Albumin**
component, changes in hydraulic conductivity (frog), H1357
nondefatted, coronary resistance increased by, saline-perfused heart, H1606
serum, capillary permeability (frog), H1351
- Alkalosis**, cerebral blood flow during, arterial pH modulation of, H34
- Altitude**, high, coronary and myocardial adaptations, H1667
- Amino acids**
excitatory
medial nucleus tractus solitarius, H1307
medial nucleus tractus solitarius neurons (guinea pig), H1389
- 2-Amino-5-phosphonovalerate**, excitatory, medial nucleus tractus solitarius, H1307
- Ammonia**, production, diaphragm, high-intensity exercise, H1185
- Anaphylatoxin**, C5a, pulmonary artery response to, H1325
- Anesthesia**
general, actions of pentobarbital, H1743
halothane, flow-independent pulmonary vasoconstriction and, H74
- Anesthetics**
halogenated, negative inotropy, ventricular myocardium (ferret), H827
local, estimatability of ion channel blockade, model, H626
volatile, effects on hearts, H1118
- ANF: see Atrial natriuretic factor**
- Angiotensin**
hemodynamic response and, aortic cross-clamping, H68
pulmonary vasoconstriction, halothane and, H74
regulation of plasma ANF, afterload, awake state, H1736
- Angiotensin II**
long-term influence, abolition of, H543
pressure-overload hypertrophy and, heart, H324
response, fetoplacental (sheep), H473
response to vasoconstriction, fetoplacental (sheep), H464
stimulation, protein synthesis, heart cells, H610
vasculature response to, uterine and umbilical (sheep), H197
vasoconstrictor infusion, autoregulation during, H1270
- Angiotensin-converting enzyme**, activity, vascular, abolition of, H543
- Angiotensin-converting enzyme inhibitor**, hemodynamic response and, aortic cross-clamping, H68
- Angiotensin system**, central, hypertonic resuscitation and, severe hemorrhage, H1752
- Anoxia**, reoxygenation and, endothelial cell injury induced by, H925
- Antiarrhythmic drugs**
blockade, potassium channels, heart, H1609
electrophysiological actions of, general anesthesia, H1743
- Antibiotics**, cardiovascular support versus, septic shock, model, H1440
- Antidiuretic hormone: see also Vasopressin**
positive inotropic action of, endocardial endothelium in, H1148
- Antioxidants**, therapy, myocardial stunning, H889
- Aorta**
adenosine response, ontogeny response (guinea pig), H1637
cross-clamping, hemodynamic response to, vasoconstriction and, H68
endothelial cell denudation, fatty acid metabolism and, H442
insufficiency, captopril in volume overload, H796
parasite products, endothelium-dependent relaxation, H648
quantitative and autoradiographic analyses, α -adrenergic and serotonergic receptors, H1343
thoracic, relaxation mediated by adenosine, H62
- Arachidonate**
cerebral vascular activity and, newborn (pig), H1230
metabolism, cardiac myocytes, H582
- Arachidonic acid**, cytochrome P-450 metabolites of, dilation of cerebral arterioles, H1171
- L-Arginine**
cerebral circulation, nitric oxide effects, H1216
endothelium-dependent, brain microvessels, H1396

L-Arginine (*continued*)

- pathway
 - activation by bradykinin, serotonin, and clonidine, coronary arteries, H1433
 - effects on vascular responsiveness, endotoxemia, H1038
 - relaxation and cGMP formation dependent on, vascular smooth muscle, H1813

Arrhythmias

- atrial, inhomogeneity in conduction, H1254

- calcium waves, myocytes, H940
- cardiac, general anesthesia, H1743

Arterioles

- cerebral, oxygen and arachidonate effects, newborn (pig), H1230
- coronary, flow-induced dilation, H1063
- late-onset renal hypertension, aging myocardium, H1681
- reactivity, intramural diffusion barrier effects, H574
- resistance, contraction, pertussis toxin effects on neuropeptide Y, H1427

- Aspartate, activation, intrathoracic ganglionic neurons, H1108
- Asphyxia, cerebrovascular responses to, prostanoic effects, newborn (pig), H662

- ATP: *see* Adenosine triphosphate
- ATPase: *see* Adenosine triphosphatase; Sodium-potassium-ATPase

Atrial cells

- β -agonist sensitivity in, failing heart, H1009
- electrophysiological activity in, mathematical model (bullfrog), H370

- Atrial natriuretic factor
 - influence, intravascular volume displacement (pig), H1595

- left atrial compliance, H1006
- plasma, regulation in afterload, awake state, H1736
- pulmonary circulation, EDRF role in, at birth, H1921

- release
 - modulation by endothelium-derived relaxing factor, H982
- natriuresis and, high-output heart failure, H1374
- neural control of, hypertension (pig), H735

Atrial natriuretic peptide

- before and after heart failure, H1643
- capillary filtration and, forearm, H258
- capillary permeability (frog), H1351
- cGMP and, epicardial coronary dilation and, H340
- lymphatics and (cow), H42

- Atrioventricular conduction
 - heart rate and, separate parasympathetic control, H536

- irregular pacing and fibrillation, heart atria, H1015

- Atrioventricular interval, ventricular refractoriness and, H1463

Atrioventricular node

- parasympathetic postganglionic pathways, H1504

rhythm: *see* Rhythm

Autonomic nervous system

- control, heart rate and atrioventricular conduction, H536

- pathophysiology, heart failure, H689
- reflex control of, cyclooxygenase blockade and, H745

- Autoregulatory response, regional, infusion of vasoconstrictor agents, awake state, H1270

Awake state

- aortic blood flow measurement, Doppler technique, H448
- blood pressure oscillations, identification of, H1050
- infusion of vasoconstrictor agents, regional autoregulatory response to, H1270
- plasma ANF, regulation in afterload, H1736
- pulmonary circulation, halothane anesthesia effects, H74
- sympathectomy effects, blood pressure, H1337

B

- Bacteremia, hyperdynamic, prostaglandin effects on microcirculation, H728
- Barium, contracture induced by, myocardium, metabolism and, H1566

Basilar artery

- endothelium-dependent dilation, chronic hypertension, H1455
- tone, nitric oxide role in, H1216
- BAY K 8644, leukotrienes and, positive inotropism, heart, H1239

- Behavior, cardiovascular reactivity and, H248

- Biomechanics, excised ventricular epicardium, H101

- Biostatistics, noisy data, H1305
- 2',7'-Bis(2-carboxyethyl)-5,6-carboxyfluorescein, fluorescence, ventricular myocytes, H973

Blockade

- ion channel, estimatability of, model, H626
- quinidine, potassium channels, heart, H1609

Blood

- constituents: *see* specific constituent
- microvascular oxyhemoglobin saturations, cryospectrophotometry, H1912
- reservoir, skin, during heat stress, H1796
- viscosity, perfusate rheology effects, H603

Blood-brain barrier

- endothelial permeability, charge effects on, H162
- permeability and edema and, hypertension-induced, H497
- transport, cyclofoxy, H1278

- Blood flow: *see also* Circulation; Microcirculation

- adrenal cortical and medullary, catecholamine secretion effects, H681
- aortic, Doppler technique, awake state, H448

cerebral

- adenosine regulation of, H1703
- asphyxia and reventilation effects, prostanoids and, newborn (pig), H662
- collateral perfusion to, H560
- cyclofoxy enantiomer kinetics in, H1278
- during hyperammonemia, arterial pH modulation of, H34

- energy metabolism and, during stress, H269

- global ischemia (pig), H1551
- interleukin 1 α effects (piglet), H1486
- potassium dilation of arteries, H902
- changes, perinatal aortic growth relations (lamb), H1247

coronary

- convection-diffusion model, H167
- endothelin effects, newborn (pig), H1613
- isoproterenol and, H346
- left atrial and ventricular microsphere injection, H635
- pressure-flow relations, H603
- resting, cholinergic regulation (swine), H109

- femoral, β -receptor subtypes in, H1575
- fetoplacental response, vasoconstriction (sheep), H464

- ileac, sinoaortic baroreceptor denervation, H720

muscle

- adenosine and active hyperemia, H1295
- during hemorrhage, laser-Doppler flowmetry, H860
- myocardial, pacing during, oxygen consumption and, H872
- myocardial fiber strain, asynchronous activation, H300
- rate, neuropeptide Y regulation of, myocardium, H1709

regional

- responses to vasoactive intestinal contractor peptide, H1152
- spinal cord, during hypothermia, H1649
- response, fixed volume hemorrhage, H190

- skin, during heat stress, H1796

- Blood pressure: *see also* Pressure

arterial

- hypoxemia and, H1197
- reflex response, isometric muscle contraction, H1380
- sinoaortic baroreceptor denervation, H720
- fetoplacental response, vasoconstriction (sheep), H464
- hemorrhage, adrenal and renal nerve activity during, H1134
- high-salt intake effects, H1629
- lipoxigenase pathway inhibition and, renovascular hypertension, H1774
- neuropeptide receptors and, H174
- oscillations, awake state, H1050
- sympathectomy effects, awake state, H1337

- Blood volume: *see also* Volume

- arterial pressure, hypoproteinemia and, H1317
- fetal, restoration after rapid hemorrhage, H567

Bradykinin

- activation, L-arginine pathway, coronary arteries, H1433
- endothelium-dependent dilation, basilar artery, chronic hypertension, H1455

Brain

- blood flow: *see* Blood flow, cerebral
- cyclofoxy enantiomer kinetics in, H1278
- injury, ischemia, hypertension and hemodilution effects, H211

ischemia: *see* Ischemia
 metabolism, global ischemia (pig), H1551
 microvasculature, endothelin effects, H1688
 microvessels, endothelium-dependent L-arginine, H1396
 nucleotide pools, hemorrhage and resuscitation, H1781
 Brain stem, cardiovascular afferent input to, synaptic mechanism regulation of, H653
 Bronchial arteries, responsiveness, adrenergic and cholinergic, H156
t-Butyl hydroperoxide, lung injury, U74500A inhibition of, H144

C

Caffeine
 contractility, ventricular myocytes, H395
 differential effects, skinned fibers, heart (ferret), H1803
 Calcium
 anti-free radical agent effects on, heart, H137
 content
 hypothermia effects, hypoxic myocytes, H333
 sarcoplasmic reticulum, myocytes (guinea pig), H1222
 cytosolic
 angiotensin II in cardiac receptors, H610
 single cardiomyocytes, high-speed digital imaging, H230
 entry, calcium current facilitation and, H951
 exchange, ventricular cells, H592
 extracellular, resistance artery and small vein, H23
 intracellular, high-energy phosphates and, myocytes, H1851
 intracellular buffering
 atrial action potential, model (bull-frog), H370
 cardiac pacemaker cell, model (bull-frog), H352
 low, heart arrested by, oxygen consumption in, H1142
 myocyte structure and function, cardiomyopathic heart (hamster), H1533
 myofibrillar activity sensitive to, myocardial stunning effects, H813
 release, exercise effects, sarcoplasmic reticulum (pig), H643
 sensitivity
 norepinephrine-activated vascular smooth muscle, H2
 skinned fibers, heart (ferret), H1803
 transport, inotropic effects of low sodium, heart, H712
 uptake, cellular, membrane cholesterol and, H1933
 Calcium channels
 blockade, estimatability of, model, H626
 L-type, embryonic heart cells (chick), H639
 pH-dependent block of, nifedipine, H1178
 Calcium currents
 facilitation, postrest recovery, calcium entry effects, H951
 membrane-delimited stimulation of, heart cells, H284

T- and L-type, extracellular magnesium effects, atrial myocytes, H1842
 Calcium ions
 mitochondrial ATP synthase, regulation, heart, H1264
 myofilament sensitive to, hypoxia and reoxygenation, heart, H784
 Calcium transients
 influence, sodium gradient, vascular smooth muscle, H409
 rest decay of, ventricular myocytes, H395
 Calcium waves, propagation, myocytes, H940
 Capacitance
 intestinal venules, sympathetic activity and, H674
 vascular, aortic chemoreceptors and, H933
 Capillaries, geometry, subepicardium and subendocardium, H204
 Captopril, volume overload and, left ventricular, H796
 Carbon-14-butanol, blood flow, spinal cord, H1649
 Carbon dioxide, partial pressure, adaptations to high altitude, H1667
 Cardiac cells: *see* Myocytes
 Cardiac output
 central angiotensin system, hypertonic resuscitation from hemorrhage and, H1752
 high-salt intake effects, H1629
 Cardiac tamponade, opioid blockade during, awake state, H512
 Cardiomyocytes
 atrial, proliferation, H1826
 membrane-delimited stimulation, calcium current, H264
 mitochondrial ATP synthase in, H1264
 single, cytosolic calcium in, high-speed digital imaging, H230
 Cardiomyopathy, calcium kinetics, myocyte structure and (hamster), H1533
 Cardioplegia
 hypothermic reperfusion, postischemic recovery and, H879
 oxygen consumption, arrested heart, H1142
 Cardiovascular support, antibiotics versus, septic shock, model, H1440
 Carotid artery, adrenergic denervation, diabetes mellitus, H55
 Catalase
 dilation, cerebral arterioles, H1171
 sodium, calcium, and function, heart, H137
 superoxide dismutase and, myocardial stunning, H889
 Catecholamines
 autonomic pathophysiology, heart failure, H689
 blood pressure and, awake state, H1337
 cerebral blood flow and energy metabolism, during stress, H269
 graded central hypovolemia, sympathetic activity during, H1197
 neurotransmission, cardiac ganglion, neonate, H997
 secretion, adrenal oxygen consumption and, H681
 Cefoxitin, cardiovascular support versus, septic shock, model, H1440

Central nervous system, regulation of cardiovascular afferent input, solitary tract nucleus, H653
 Cerebral arteries
 dilation, potassium and, H902
 vasodilator nerve stimulation, mechanism of response, H1511
 Cerebral artery, collateral perfusion to, H560
 Cerebral cortex
 microvasculature, endothelin effects, H1688
 sensory, blood flow, adenosine regulation of, H1703
 Cerebrospinal fluid
 hyperammonemia, cerebral blood flow during, pH effects, H34
 prostanoids, vasodilation and, recombinant interleukin 1 α (piglet), H1486
 cGMP: *see* Guanosine monophosphate, cyclic
 α -Chloralose, electrophysiological actions of, general anesthesia, H1743
 Cholesterol, membrane, cellular calcium uptake and, H1933
 Circulation: *see also* Blood flow; Microcirculation
 cerebral
 nitric oxide and, H1216
 oxygen and arachidonate effects, newborn (pig), H1230
 coronary
 myocardial energy metabolism during hyperemia, H1190
 β -receptor subtypes in, H1575
 mesenteric, during vasoconstrictor infusion, H1270
 pulmonary
 EDRF role in, at birth, H1921
 endothelin 1 and, H48
 halothane anesthesia effects, H74
 left atrial pressure and, H93
 Clonidine, activation, L-arginine pathway, coronary arteries, H1433
 Complement, activation, postischemic skeletal muscle, H525
 Compliance
 left atrial, H1006
 venous drainage, hindlimb, H1789
 ventricular, naloxone effects, endotoxemia, H504
 Coronary artery
 L-arginine pathway, bradykinin, serotonin, and clonidine effects, H1433
 conductance, cholinergic regulation of (swine), H109
 occlusion, microcirculation and, H909
 physiology, wall stretch effects, H1869
 quantitative and autoradiographic analyses, α -adrenergic and serotonergic receptors, H1343
 spasm, hypercontractility to histamine, H9
 Coronary collaterals
 adaptation, high altitude, H1667
 intramural, functional anatomical site of, H706
 Coronary flow, inosine effects, H759
 Coronary vessels, proximal, dilation, cGMP and, H340
 Coupling
 excitation-contraction
 during respiratory acidosis (ferret), H843

Coupling (*continued*)

- myocyte structure and calcium kinetics (hamster), H1533
- sarcoplasmic reticulum calcium content and, myocytes, heart (guinea pig), H1222
- ventricular myocytes, H395
- receptor-effector, myogenic interaction, microvascular smooth muscle, H1126
- Creatine kinase, hypothermic reperfusion, postischemic recovery and, H879
- Cromakalim, hypoxia effects, pulmonary and mesenteric arteries, H281
- Cryospectrophotometry, microvascular oxyhemoglobin saturations, H1912
- CSF: *see* Cerebrospinal fluid
- 6-Cyano-7-nitroquinoxaline, excitatory, medial nucleus tractus solitarius, H1307
- Cycloheximide, kinetics, brain, H1278
- Cycloheximide, protein synthesis inhibition, myocardial protection by preconditioning and, H1822
- Cyclooxygenase
 - blockade, muscle afferent response to static contractions and, H745
 - dilation, cerebral arterioles, H1171
- Cyclooxygenase inhibitor, pulmonary artery response, H1325
- Cytochrome *aa₃*, cardiac oxygenation, ischemia and reperfusion, H1477
- Cytochrome *P-450*, metabolites of arachidonic acid, dilation of cerebral arterioles, H1171

D

- Defibrillation, deterministic model, H1544
- Deformability, erythrocytes, oscillatory shear flow and, H1071
- Depolarization, insulin and isoproterenol effects, cardiomyocytes, H554
- Desferrioxamine
 - iron-mediated radical reactions, stunned myocardium, H1901
 - membrane phospholipid breakdown and, ischemic-reperfused heart, H1101
- Development
 - embryonic, platelet-activating factor during pregnancy, H766
 - heart, L-type calcium channels, embryonic heart cells (chick), H639
 - vascular, perinatal aortic growth (lamb), H1247
- Dextran, manipulation of clot structure, red cells, H1527
- Dextran, neutral vs. anionic, permeability of, brain microvascular endothelium, H162
- Diabetes mellitus, adrenergic denervation with, H55
- Diaphragm, ammonia or lactate production, high-intensity exercise, H1185
- Diastole
 - passive electric property relations and, left ventricular, H457
 - regional finite strains, left ventricle, H1409
- Dichloroacetate, stimulation, glucose oxidation, ischemic heart, H1079
- Dihydroouabain, sodium-potassium pump and sodium, cardiac myocytes, H488
- Dipyridamole
 - adenosine regulation, cerebral blood flow, H1703

- capillary adenosine transport, heart (guinea pig, rat), H772
- interstitial adenosine and, heart (guinea pig), H1471
- Docosahexaenoic acid, dietary n-3, myocardial ischemia and reperfusion, H1518
- Dopamine, fluids and, septic shock, model, H1440
- Dose-response relations, defibrillation model, H1544

E

- Edema
 - cerebral, hypertension and hemodilution effects, H211
 - pulmonary
 - hypertension-induced, oxygen radical effects, H497
 - hypoxia and reoxygenation effects, H518
- EDRF: *see also* Endothelium-derived relaxing factor
- Eicosanoids, hypoxic pulmonary vasoconstriction and, H751
- Eicosapentaenoic acid, dietary n-3, myocardial ischemia and reperfusion, H1518
- Elastance, afterload effects, left ventricular function, closed chest, H619
- Elastase
 - endothelial cell injury, neutrophil mediated, H925
 - leukocyte infiltration and, reperfusion-induced, H390
 - neutrophil-mediated permeability, H1288
- Electrical stimulation, cardiac response to, atrial and ventricular ganglionated plexi, H1365
- Electrophysiological activity, atrial cell, mathematical model (bullfrog), H370
- Embryo, heart cells, calcium channels in (chick), H639
- Endocardial endothelium, vasopressin actions, H1148
- Endocardium, ANF release and, H983
- Endothelial cell, denudation, fatty acid metabolism and, aorta, H442
- Endothelial cells
 - coculture with cells of vascular media, endothelin release and, H1928
 - injury, anoxia-reoxygenation-induced, neutrophil-mediated, H925
- Endothelin
 - circulatory effects, newborn (pig), H1613
 - microvascular effects, direct cortical, H1688
 - release, coculture of endothelial cells with cells of vascular media, H1928
 - vasodilation induced by, H1835
- Endothelin 1, pulmonary vasodilation and, H48
- Endothelium, reactive dilation and, skeletal muscle arterioles, H1313
- Endothelium-dependent relaxation, filarial parasite products, H648
- Endothelium-derived relaxing factor
 - L-arginine, brain microvessel tone and, H1396
 - arterioles, skeletal muscle, H1313
 - basilar artery tone and, H1216
 - cGMP and, epicardial coronary dilation and, H340

- endothelial dysfunction, cardiac ischemia, H1660
- modulation of ANF release, H983
- prostanoids and, vasodilation, H1835
- pulmonary circulation and, at birth, H1921
- Endotoxemia
 - antibiotics versus cardiovascular support, model, H1440
 - E. coli*, left ventricular dysfunction in, H504
 - loss of vascular responsiveness, L-arginine pathway effects, H1038
- Energy metabolism
 - cerebral blood flow and, during stress, H269
 - myocardial, reactive hyperemia, H1190
- Enflurane
 - anesthesia, negative inotropy, ventricular myocardium (ferret), H827
 - anesthetic, effects on hearts, H1118
- Enzymes: *see* specific enzyme
- Epicardium, deformation, asynchronous activation and, H300
- Epinephrine
 - cerebral blood flow and energy metabolism, during stress, H269
 - graded central hypovolemia, hypoxemia and, H1197
 - neurotransmitter, skeletal muscle, H1718
- Epoxycosatrienoic acid, dilation, cerebral arterioles, H1171
- Epoxygenase, dilation, cerebral arterioles, H1171
- Erythrocytes
 - deformation response, oscillatory shear flow, H1071
 - distribution, left ventricular myocardia, H403
 - velocity
 - flow-induced dilation, H1063
 - hemoconcentration effects, striated muscle, H1694
 - washout, gel pore size and red cell flexibility effects, H1527
- Ethylendiaminetetraacetic acid, coronary microvascular response and, during occlusion, H909
- Exercise
 - high-intensity short-term, ammonia or lactate production by diaphragm, H1185
 - static contractions, muscle afferent response to, cyclooxygenase blockade and, H745
 - training, calcium release and, coronary smooth muscle sarcoplasmic reticulum (pig), H643

F

- Fatty acids
 - dietary n-3, myocardial ischemia and reperfusion, H1518
 - metabolism, endothelial cell denudation and, aorta, H442
 - oxidation
 - dichloroacetate stimulation of, ischemic heart, H1079
 - substrate preference, early myocardial reperfusion, H317
- 2-FDG: *see* 2-[¹⁸F]Fluoro-2-deoxy-D-glucose

- Fetus: *see also* Placenta; Pregnancy
pulmonary circulation, EDRF role in, at birth, H1921
rapid hemorrhage, restoration of blood volume after, H567
uterine and umbilical response, angiotensin II and norepinephrine (sheep), H197
- 2-[¹⁸F]Fluoro-2-deoxy-D-glucose, analysis, myocardial glucose metabolism, H1022
- Fibrillation, atrial, ventricular response during, H1015
- Fibrin, manipulation of clot structure, red cells, H1527
- Filtration, capillaries, ANP effects, forearm, H258
- Fish oil, dietary n-3, myocardial ischemia and reperfusion, H1518
- Flow
capillary cell, spatial heterogeneity in microvascular function, H124
coronary, constant, interstitial adenosine and (guinea pig), H1471
dilation induced by, coronary microvessels, H1063
oscillatory shear, erythrocytes, H1071
retrograde, intramural collateral site, H706
- Flowmeter, electromagnetic, aortic blood flow measurement, H448
- Flowmetry
laser-Doppler
cerebral microvasculature, H1688
endothelin-induced vasodilation, H1835
muscle blood flow during hemorrhage, H860
- Fluid
dynamics, rapid hemorrhage and, fetus, H567
interstitial, formation, ANF effects (pig), H1595
volume, extracellular, hypoproteinemia, H1317
- Force-velocity relations, end-systolic relation comparison, left ventricular function and, H1419
- Forskolin, VIP effects, myocardial, H1559
- Fura-2
calcium waves, myocytes, H940
calibration, ventricular myocytes, H973
single cardiomyocytes, high-speed digital imaging, H230
- Furosemide, potassium fluxes dependent on, ventricular myocytes, H962
- G
Ganglionated plexi, atrial and ventricular, cardiac response to electrical stimulation, H1365
- Gas, inert, transport, myocardium, H167
- Gentamicin, cardiovascular support versus, septic shock, model, H1440
- Glibenclamide, hypoxia effects, pulmonary and mesenteric arteries, H281
- Glucose
metabolism, myocardial, 2-FDG and, H1022
oxidation, dichloroacetate stimulation of, ischemic heart, H1079
- Glutamate, activation, intrathoracic ganglionic neurons, H1108
- Glutamine, cerebral blood flow, during hyperammonemia, H34
- Glutathione, lung, hypoxia and reoxygenation effects, H518
- Glutathione redox, pathway, heart, H137
- G_s protein, activated, cardiac calcium current and, H264
- G proteins
acetylcholine-sensitive potassium channels, atrial myocytes, H1730
expression, cardiac myocytes, H432
ion channels coupled with, heartbeat regulation, H1621
modulation of calcium channels, ventricular myocytes, H820
- Gracilis muscle, adenosine, active hyperemia and, H1295
- Growth
aortic, perinatal (lamb), H1247
heart cell, angiotensin II stimulation of, H610
- Guanethidine, blood pressure and, awake state, H1337
- Guanosine monophosphate, cyclic endocardium, ANF release and, H983
epicardial coronary dilation and, H340
formation, L-arginine-dependent, vascular smooth muscle, H1813
relaxation associated with, pulmonary artery, superoxide anion effects, H1056
- Guanylate cyclase
epicardial coronary dilation and, H340
relaxation associated with, pulmonary artery, superoxide anion effects, H1056
- H
Halothane
anesthesia
flow-independent pulmonary vasoconstriction and, H74
negative inotropy, ventricular myocardium (ferret), H827
anesthetic, effects on hearts, H1118
- Heart
adenosine response, ontogeny response (guinea pig), H1637
adenosine transport, transcapillary (guinea pig, rat), H772
arrested, oxygen consumption in, H1142
ATP-sensitive potassium channels, quinidine blockade of, H1609
barium-induced contracture, metabolism during, H1566
calcium current, activated G_s protein and, H264
changes, long-term pressure overload, H849
electrophysiology, potassium channel permeability (guinea pig), H1448
excised ventricular epicardium, biaxial mechanical behavior of, H101
extracellular magnesium, T- and L-type calcium currents, H1842
failure
β-agonist sensitivity in atrial cells, H1009
ANP effects before and after, H1643
autonomic pathophysiology in, H689
high-output, ANF release and natriuresis in, H1374
function, sodium and calcium, anti-free radical agent effects, H137
ganglion, neurotransmission in, neonate, H997
- glucose metabolism, 2-FDG analysis of, H1022
- G protein expression in, potassium chloride depolarization and, H432
- hypertrophy
acidosis effects on skinned muscle fibers, H1044
angiotensin II in, H610
male and female, sex hormones and, H866
pressure-overload, renin-angiotensin system involvement in, H324
interstitial adenosine, epicardial disks (guinea pig), H1471
ischemia and reperfusion, intracellular sodium measurements, NMR (ferret), H1767
ischemia-reperfusion injury, protective effects of adenosine deaminase inhibitor, H835
ischemic, glucose oxidation, dichloroacetate stimulation of, H1079
ischemic- and hypoxic-perfused, endothelial dysfunction in, H1660
ischemic-reperfused, iron effects on membrane phospholipid breakdown, H1101
low extracellular sodium, inotropic effects of, H712
negative inotropy, halogenated anesthetics and (ferret), H827
nucleotide pools, hemorrhage and resuscitation, H1781
oxygenation, ischemia and reperfusion, H1477
positive inotropism, low concentrations of leukotrienes, H1239
postischemic recovery
heat-shock enhanced, H424
reperfusion and, H879
regional capillary geometry, H204
response to electrical stimulation, atrial and ventricular ganglionated plexi, H1365
saline-perfused, nondefatted albumin, H1606
sympathetic-parasympathetic imbalance, AV junctional rhythm induced by, H839
tricarboxylic acid cycle, model, H987
tumors, differentiated atrial cardiomyocytes, H1826
ultrastructure, chronic tachycardia and (swine), H218
ventricular myocytes, G protein modulation of calcium channels, H820
- Heart atria
G protein expression in, potassium chloride depolarization and, H432
irregular pacing, ventricular response during, H1015
- left
compliance, H1006
ganglion neurons, activity of, H1207
microsphere injection, coronary flow, H635
pressure, regional peak lengthening rates and, H480
pressure: *see* Pressure
- Heartbeat, regulation, G protein-coupled ion channels, H1621
- Heart cells: *see* Myocytes
- Heart rate
atrioventricular conduction and, separate parasympathetic control, H536

Heart rate (*continued*)

- dependence, excitability of papillary muscle (guinea pig), H290
- posterior hypothalamic stimulation, sinoaortic baroreceptor denervation, H720
- reflex response, isometric muscle contraction, H1380

Heart ventricles

- dysfunction, chronic tachycardia and (swine), H218
- epicardium, biaxial mechanical behavior of, H101
- fibrillation
 - deterministic model, H1544
 - reperfusion injury, adenosine deaminase inhibitor effects, H835
 - interdependence, theoretical model, H181
- pacing, myocardial fiber strain and blood flow by, H300
- postischemic recovery, heat-shock enhanced, H424
- refractoriness, atrioventricular relations to, H1463
- regional function, left atrial pressure and, H480
- remodeling, aging, severe myocardial dysfunction induced by, H1086
- response, irregular pacing and defibrillation, atrial, H1015

Heart ventricles, left

- acute ischemic regions, three-dimensional mapping, MRI, H1492
- anterior and posterior wall, finite strains in, H1409
- antioxidant therapy, myocardial stunning and, H889
- dysfunction, *E. coli* endotoxemia, H504
- enlargement, chronic overload-induced, captopril effects, H796
- function
 - afterload effects in closed chest, H619
 - force-velocity and end-systolic pressure-volume relations, H1419
 - microsphere injection, coronary flow, H635
 - passive electric properties, diastolic shape relations, H457
- Heartworm, parasite products, endothelium-dependent relaxation, H648
- Heat, initial and recovery, contracting heart muscle, H1601
- Heat-shock, postischemic recovery and, ventricular, H424

Hematocrit

- adaptations, high altitude, H1667
- arteriolar oxygen transport and, striated muscle, H1694
- response, fixed volume hemorrhage, H190
- transmural gradient, left ventricular myocardia, H403

Hemoconcentration, arteriolar oxygen transport and, striated muscle, H1694

Hemodilution

- during cerebral ischemia, brain injury and edema, H211
- perfusate, coronary pressure-flow relations, H603

Hemoglobin

- adaptations, high altitude, H1667
- arteriolar oxygen transport and, striated muscle, H1694

Hemorheology, perfusate, coronary pressure-flow relations, H603

Hemorrhage

- adrenal and renal nerve activity, anesthesia, H1134
- hypertonic resuscitation from, central angiotensinergic system and, H1752
- rapid, restoration of blood volume after, fetus, H567
- resuscitation and, heart and brain nucleotide pools, H1781

Histamine

- endothelium and mechanical responses with, pulmonary veins (monkey), H1032
- hypercontractility to, spastic coronary artery smooth muscle, H9
- resistance, brain vessels, H243
- Hormonal responses, high-salt intake effects, H1629

Hormones: *see* specific hormone

Hyaluronan

- ³H-labeled, removal rate of, skin, H532
- prenodal lymph, skin, H1097
- Hyaluronic acid, removal rate, skin, H532
- Hydraulic conductivity, albumin component attenuation of, capillary permeability (frog), H1357

Hydrogen peroxide

- cGMP-associated relaxation and, pulmonary artery, H1056
- neutrophils, sarcolemmal sodium-potassium-ATPase and, H1330

Hydroxyl radical

- membrane phospholipid breakdown and, ischemic-reperfused heart, H1101
- neutrophils, sarcolemmal sodium-potassium-ATPase and, H1330
- Hyperammonemia, cerebral blood flow during, arterial pH modulation of, H34

Hypercapnia

- heart, during respiratory acidosis (ferret), H843
- hypoxia and, cardiovascular system, H932

Hypercontractility, histamine, spastic coronary artery smooth muscle, H9

Hyperemia

- active, adenosine and, soleus and gracilis muscle, H1295
- reactive
 - arteriolar, flow dependent factor in, H1313
 - myocardial energy metabolism during, H1190
 - neuropeptide Y effects, H1709

Hyperpolarization

- dilation and, cerebral arterial, H668
- insulin and isoproterenol effects, cardiomyocytes, H554

Hypertension

- acute
 - free radical effects, H497
 - leukocyte and PAF effects, H1161
- blood pressure oscillations, awake state, H1050
- blood volume and arterial pressure with, volume loaded dogs, H1317
- cardiovascular reactivity and, H248
- chronic, endothelium-dependent dilation of basilar artery, H1455
- during cerebral ischemia, brain injury and edema, H211
- hemorrhage effects, muscle blood flow, H860
- late-onset, aging myocardial microvessels, H1181

mitochondrial ATP synthase, regulation, heart, H1264

myocardial hypertrophy induced by, isoproterenol and oxygen supply in, H346

pulmonary

- EDRF role in, at birth, H1921
- neural control of ANF release (pig), H735
- renovascular, blood pressure, lipoxygenase pathway and, H1774

Hypertrophy

cardiac, long-term pressure overload, H849

left ventricular, captopril in volume overload, H796

Hypochlorous acid, neutrophils, sarcolemmal sodium-potassium-ATPase and, H1330

Hypoproteinemia, blood volume and arterial pressure with, volume loaded dogs, H1317

Hypotension

- hemorrhage effects, muscle blood flow, H860
- opioid blockade, awake state, H512

Hypothalamus

- medullary reticular formation and, mediation of coronary vasoconstriction, H917
- posterior, stimulation, baroreceptor denervation, H720

Hypothermia

- calcium content and, hypoxic myocytes, H333
- regional blood flow, spinal cord, H1649

Hypovolemia, graded central, sympathetic activity during, hypoxemia and, H1197

Hypoxemia, graded central hypovolemia, sympathetic activity during, H1197

Hypoxia

- adenosine and, thoracic aorta, H62
- ANF release, neural control of (pig), H735
- hypercapnia and, cardiovascular system, H932
- myocytes, calcium content, hypothermia effects, H333
- reoxygenation and
 - lung glutathione system, H518
 - myocardium, H784
- tension and, pulmonary and mesenteric arteries, H281

I

Indicator dilution technique, inert gas transport, myocardium, H167

Indomethacin

- CSF, vasodilation and, recombinant interleukin 1 α (piglet), H1486
- endothelium-dependent dilation, basilar artery, chronic hypertension, H1455
- Infarction, myocardial, protection by preconditioning, H1822

Inosine, coronary flow and, H759

Inotropism, positive, low concentrations of leukotrienes, heart, H1239

Inotropy, negative, ventricular myocardium (ferret), H827

Insulin

- glucose metabolism, 2-FDG analysis of, heart, H1022
- transmembrane potential and, isolated myocytes, H554

- Interleukin 1 α , recombinant, vasodilation and increased CSF prostanoids (pig-let), H1486
- Interventricular septum, wall stretch effects, coronary hemodynamics, H1869
- Intestine, microvenules, pressure-diameter relations, sympathetic activity and, H674
- Intracardiac nerves, parasympathetic control, heart rate and atrioventricular conduction, H536
- Intramural diffusion barrier, influence, arteriolar reactivity, H574
- Iron**
membrane phospholipid breakdown and, ischemic-reperfused heart, H1101
radical reactions mediated by, myocardial stunning, H1901
- Ischemia**
cardiac
endothelial dysfunction in, H1660
glucose oxidation, dichloroacetate stimulation of, H1079
G protein modulation of calcium channels, H820
reperfusion injury and, adenosine deaminase inhibitor effects, H835
cerebral
collateral perfusion studies, H560
hypertension and hemodilution during, H211
xanthine dehydrogenase-to-oxidase conversion, H1655
coronary, microcirculation in, H909
global, age-related cerebrovascular response (pig), H1551
gracilis muscle, complement activation and white cell sequestration in, H525
left ventricular, three-dimensional mapping, MRI, H1492
myocardial
dietary n-3 fatty acid effects, H1518
neuropeptide Y effects, H1709
slow and fast heart rate, ATP depletion in, H1759
reperfusion and
cardiac oxygenation, H1477
leukocytes, elastase and, H390
skeletal muscle, neutrophil contribution to dysfunction, H1809
ventricular recovery, heat-shock enhanced, H424
- Isoflurane**
negative inotropy, ventricular myocardium (ferret), H827
anesthetic, effects on hearts, H1118
- Isoproterenol**
activation, intrathoracic ganglionic neurons, H1108
adrenergic and cholinergic responses, bronchial arteries, H156
oxygen consumption during, myocardium, H346
 β -receptor subtypes, coronary circulation, H1575
single cardiomyocytes, high-speed digital imaging, H230
transmembrane potential and, isolated myocytes, H554
VIP effects, myocardial, H1559
- K**
Kidney
excretory function, ANP effects, before and after heart failure, H1643

hypertension, late-onset, aging myocardial microvessels, H1681

L

- Lactate, production, diaphragm, high-intensity exercise, H1185
- Lanthanum**
calcium displaceable by, ventricular cells, H592
specific component of potassium current, cardiac cells, H1881
- Leukocytes**
elastase inhibitors, neutrophil-mediated vascular leakage, H1288
infiltration, reperfusion-induced, elastase role in, H390
repletion, thrombin-induced increase in vascular permeability, lung, H149
sequestration, postischemic skeletal muscle, H525
- Leukocyte factor**, coronary constriction to serotonin and, H1161
- Leukotrienes**
coronary constriction to serotonin and, H1161
low concentrations, positive inotropic effects, heart, H1239
- Lidocaine**, coronary constrictor pathway, H917
- Linear regression**, noisy data, H1305
- Lipids**, peroxidized, subcellular distribution, myocardium, H116
- Lipopolysaccharide**, L-arginine pathway, endotoxemia, H1038
- Lipoxygenase**, pathway, inhibition, blood pressure and, renovascular hypertension, H1774
- Lung**
inflation, PEEP effects, H697
injury
hypoxia and reoxygenation effects, H518
oxidant-mediated, U74500A inhibition, H144
peptidoleukotrienes, vasoconstriction and, H751
vascular permeability, thrombin-induced, leukocyte repletion, H149
vasodilation, endothelin 1 and, H48
- Lymphatics**, ANP effects (cow), H42
- Lymph flow**
changes in, hyaluronan, H1097
formation, skeletal muscle fibers, H1860
- Lymph vessels**
ANP effects (cow), H42
volumes, skeletal muscle fiber deformation, H1860

M

- Magnesium**, extracellular, T- and L-type calcium currents, atrial myocytes, H1842
- Mesenteric arteries**, tension, hypoxia effects, H281
- N-Methyl-D-aspartate**, excitatory, medial nucleus tractus solitarius, H1307
- Methylene blue**, ANP effects, lymphatics (cow), H42
- Microcirculation**: *see also* Blood flow; Circulation
active constriction of venules, sympathetic activity and, intestine, H674
 α -adrenoceptors, myogenic interaction, microvascular smooth muscle, H1126
ANP effects, forearm, H258

- arteriolar oxygen transport and, striated muscle, H1694
- arterioles, intramural diffusion barrier effects, H574
- brain, endothelium-dependent L-arginine, H1396
- cerebral**
cytochrome P-450 metabolites of arachidonic acid, H1171
oxygen radical effects, H497
resistance in, H243
coronary, coronary artery occlusion effects, H909
isolated arterioles, rate-sensitive mechanism, H1890
muscle, during hemorrhage, laser-Doppler flowmetry, H860
neutrophil-mediated vascular leakage, elastase and, H1288
prostaglandin effects, during sepsis, H728
reactive dilation, skeletal muscle arterioles, H1313
spinal, neuropeptide Y effects, H1674
- Microspheres**
radiolabeled
adrenal oxygen consumption, catecholamine secretion effects, H681
collateral blood flow, H560
coronary flow measurement, H635
Microvascular endothelium, permeability, charge effects on, H162
Microvascular function, spatial heterogeneity in, H124
- Models**
blood-tissue exchange, capillary adenosine transport (guinea pig, rat), H772
calcium channel blockade, pH-dependent, nifedipine, H1178
convection-diffusion, inert gas transport in myocardium, H167
deterministic, defibrillation, H1544
ion channels, blockade, H626
mathematical
atrial cell action potential (bullfrog), H370
cardiac pacemaker cell (bullfrog), H352
intra- and extracellular oxygen pressure gradients, working muscle, H84
septic shock, antibiotics versus cardiovascular support, H1440
theoretical, ventricular interdependence, H181
tricarboxylic acid cycle, heart, H987
- Morphine**, central angiotensin system, hypertonic resuscitation from hemorrhage and, H1752
- MRI**: *see* Nuclear magnetic resonance
- Muscle**
blood flow: *see* Blood flow
isometric contraction, reflex responses of renal nerve activity, H1380
respiratory, high-intensity exercise, ammonia or lactate production during, H1185
striated
arteriolar oxygen transport, hemoconcentration effects, H1694
spatial heterogeneity in microvascular function, H124
working, intra- and extracellular oxygen pressure gradients, H84
- Muscle, heart**
barium-induced contracture, metabolism during, H1566

Muscle, heart (*continued*)

- changes, long-term pressure overload, H849
 - contractility
 - during respiratory acidosis (ferret), H843
 - neuropeptide receptors and, H174
 - contracting, thermopile records from, H1801
 - contraction and calcium content, sarcoplasmic reticulum (guinea pig), H1222
 - excitability, rate dependence of (guinea pig), H290
 - hypoxia, reoxygenation and, H784
 - skinned, unloaded shortening velocity, H1118
 - skinned fibers, caffeine effects (ferret), H1803
- Muscle, skeletal**
- arterioles, endothelium in reactive dilation, H1313
 - autoradiographic delineation, α_1 -adrenergic receptor distribution, H1402
 - dysfunction, neutrophil effects, after ischemia-reperfusion, H1809
 - fiber deformation, lymphatic volumes, H1860
 - microvascular response, fixed volume hemorrhage, H190
 - postischemic, complement activation and white cell sequestration in, H525
 - vasodilation, nicotine-induced, epinephrine release effects, H1718
- Muscle, smooth**
- coronary, calcium release, exercise effects (pig), H643
 - microvascular, myogenic regulation of, α -adrenoceptors with, H1126
 - spastic coronary artery, hypercontractility to histamine, H9
- vascular**
- adenosine response, ontogeny of (guinea pig), H1637
 - L-arginine-dependent, H1813
 - cellular and molecular aspects, introduction, H1
 - fatty acid metabolism, H442
 - myofilament calcium sensitivity, H2
 - norepinephrine sensitivity and transmural pressure, H29
 - pinacidil effects on ion permeability, H14
 - protein kinase C involvement, H1586
 - rate-sensitive mechanism, H1890
 - relaxation mediated by adenosine, H62
 - sodium gradient effects on calcium transients, H409
- Muscle cells**
- cardiac, differentiated, proliferating, H1826
 - smooth, endothelin release, inhibition of, H1928
- Muscle fibers**
- autoradiographic delineation, α_1 -adrenergic receptor distribution, H1402
 - skinned
 - acidosis effects, hypertrophied heart, H1044
 - caffeine effects, heart (ferret), H1803
- Myeloperoxidase**, postischemia, skeletal muscle, H525
- Myocardium**
- adaptation, high altitude, H1667
 - barium-induced contracture, metabolism during, H1566

- contractility, vasopressin actions and endocardium, H1148
 - coronary constrictor pathway, H917
 - dysfunction
 - E. coli* endotoxemia, H504
 - ventricular remodeling in aging, H1086
 - early reperfusion, substrate preference for oxidative metabolism during, H317
 - electrophysiological effects, VIP, H1559
 - energy metabolism, reactive hyperemia, H1190
 - fiber strain, blood flow and, asynchronous activation, H300
 - glucose metabolism, 2-FDG analysis of, H1022
 - hypoxia, reoxygenation and, H784
 - inert gas transport, H167
 - ischemia: *see* Ischemia
 - left ventricular, transmural hematocrit gradient, H403
 - metabolism, tricarboxylic acid cycle, model, H987
 - microvessels, aging, late-onset hypertension, H1681
 - neuropeptide, blood flow rate and, H1709
 - oxygen consumption, during isoproterenol, H346
 - protection, inhibition of protein synthesis and, H1822
 - reperfusion
 - pacing during, oxygen consumption and, H872
 - subcellular distribution of peroxidized lipids, H116
 - skinned, unloaded shortening velocity, H1118
 - stunning
 - iron-mediated radical reactions, H1901
 - myofibrillar function and, H813
 - superoxide dismutase and catalase effects, H889
 - ventricular, negative inotropy, anesthetic effects (ferret), H827
- Myocytes**
- β -agonist sensitivity in, failing heart, H1009
 - ATP-depleted, reduced arachidonate metabolism in, H582
- atrial**
- acetylcholine-sensitive potassium channels, H1730
 - magnesium effects on T- and L-type calcium currents, H1842
 - calcium waves in, H940
 - cardiac pacemaker cell, model (bullfrog), H352
 - embryonic, calcium channels in (chick), H639
 - G protein expression in, potassium chloride depolarization and, H432
 - growth and protein synthesis, angiotensin II stimulation of, H610
 - high-energy phosphates, intracellular calcium and, H1851
 - hypoxic, calcium content, hypothermia effects, H333
 - membrane-delimited stimulation, calcium current, H264
 - sarcoplasmic, contraction and sarcoplasmic reticulum calcium content (guinea pig), H1222
 - sodium-potassium pump, dependence on sodium, H488

- specific component of potassium current, lanthanum block of, H1881
- structure and function, cardiomyopathic heart (hamster), H1533
- transmembrane potential of, modulation by insulin and isoproterenol, H554
- ventricular
 - calcium exchange, H592
 - calibration of fura-2, H973
 - furosemide-dependent potassium fluxes, H962
 - G protein modulation of calcium channels, H820
 - permeability of, potassium channel (guinea pig), H1448
 - rest decay of calcium transients and contractility, H395
- Myogenicity, autoregulation, during vasoconstrictor infusion, H1270
- Myogenic response
 - arteriolar, protein kinase C involvement, H1586
 - isolated arterioles, rate-sensitive mechanism, H1890
 - saline, resistance artery and small vein, H23
- Myosin isoenzymes, sex hormones and, cardiac hypertrophy, H866

N

Naloxone

- anesthesia, adrenal and renal nerve activity during hemorrhage, H1134
- blockade, during cardiac tamponade, awake state, H512
- E. coli* endotoxemia, left ventricular, H504
- Natriuresis, ANF release and, high-output heart failure, H1374
- Neonate: *see also* Newborn
 - G protein expression, cardiac myocytes, H432
 - neurotransmission, cardiac ganglion, H997
- Nephrectomy, bilateral, long-term influence of renin-angiotensin system and, H543
- Neural control
 - ANF release, hypoxia and hypertension (pig), H735
 - hypothalamus, medullary reticular formation and, H917
- Neurons
 - electrical stimulation, cardiac response to, H1365
 - intracardiac, neurotransmission, H997
 - intrathoracic ganglionic, chemical activation of, H1108
 - left atrial ganglion, activity of, H1207
- Neuropathy, autonomic, diabetes mellitus, H55
- Neuropeptide, receptors: *see* Receptors
- Neuropeptide Y
 - pertussis toxin effects, resistance arteriole contraction, H1427
 - regulation of blood flow rate, myocardium, H1709
 - spinal administration of, hemodynamic and sympathetic effects, H1674
- Neurotransmission, cardiac ganglion, neonate, H997
- Neurotransmitters, excitatory, medial nucleus tractus solitarius neurons (guinea pig), H1389

- Neutrophils**
depletion, thrombin-induced increase in vascular permeability, lung, H149
endothelial cell injury mediated by, H925
free radicals and oxidants derived from, sarcolemmal sodium-potassium-ATPase, H1330
skeletal muscle dysfunction and, after ischemia-reperfusion, H1809
- Newborn:** *see also* Neonate
endothelin, circulatory effects of (pig), H1613
prostanoid effects, cerebrovascular responses to asphyxia and reventilation (pig), H662
- Nicardipine**, pH-dependent block, sodium and calcium channels, H1178
- Nicotine**
activation, intrathoracic ganglionic neurons, H1108
ganglionic stimulation, skeletal muscle, H1718
- Nitric oxide**
L-arginine dependent relaxation, cGMP formation and, pulmonary artery, H1813
basilar artery tone and, H1216
endothelial cell release of, flow-mediated vasodilation, H804
relaxation and, coronary arteries, H1433
vasodilator nerve stimulation, cerebral arteries, H1511
- Nitroglycerin**
cerebral circulation and, H1216
cGMP and, epicardial coronary dilation and, H340
endothelial dysfunction, cardiac ischemia, H1660
endothelium-dependent dilation, basilar artery, chronic hypertension, H1455
- Nitrovasodilator**, endothelial cell release of, flow-mediated vasodilation, H804
- Norepinephrine**
adrenergic and cholinergic responses, bronchial arteries, H156
adrenergic denervation, diabetes mellitus, H55
L-arginine pathway, endotoxemia, H1038
AV junctional rhythm, heart, H839
cerebral blood flow and energy metabolism, during stress, H269
graded central hypovolemia, hypoxemia and, H1197
permeability and edema, hypertension-induced, oxygen radical effects, H497
sensitivity, elevated transmural pressure and, renal arteries, H29
vasculature response to, uterine and umbilical (sheep), H197
- Nuclear magnetic resonance**
intracellular sodium measurements, heart during ischemia and reperfusion (ferret), H1767
phosphorus, barium-induced contracture, myocardium, H1566
three-dimensional mapping, acute ischemic regions, left ventricle, H1492
- Nucleosides**, coronary flow and, H759
- Nucleotides**, pools, hemorrhage and resuscitation, heart and brain, H1781
- Nucleus tractus solitarius**
cardiovascular afferent input to, synaptic mechanism regulation of, H653
neurons, excitatory amino acids in (guinea pig), H1389
- sensory afferent synaptic transmission in, non-NMDA receptor effects, H1307
- O**
- Oligomycin**, infusion, ischemia in slow and fast heart rate, H1759
- Opiates**, *E. coli* endotoxemia, left ventricular, H504
- Ouabain**, ANP effects, lymphatics (cow), H42
- Oxidants**, lung injury mediated by, U74500A inhibition of, H144
- Oxidase**, xanthine dehydrogenase conversion to, cerebral ischemia, H1655
- Oxygen**
cerebral vascular activity and, newborn (pig), H1230
consumption
adrenal, catecholamine secretion effects, H681
arrested hearts, H1142
myocardial, during isoproterenol, H346
myocardial, pacing during perfusion and, H872
delivery, subepicardium and subendocardium, H204
partial pressure, adaptations to high altitude, H1667
pressure, intra- and extracellular, working muscle, H84
transport, arteriolar, hemoconcentration effects, striated muscle, H1694
- Oxygenation**, cardiac, ischemia and reperfusion, H1477
- Oxygen radicals**
adenosine deaminase inhibitor protection from, cardiac ischemia, H835
anti-free, sodium, calcium, and function, heart, H137
cGMP-associated relaxation and, pulmonary artery, H1056
conversion, cerebral ischemia, H1655
dilation, cerebral arterioles, H1171
free, hypoxia and reoxygenation effects, H518
iron-mediated reactions, stunned myocardium, H1901
myocardial stunning, H889
neutrophils, sarcolemmal sodium-potassium-ATPase and, H1330
permeability and edema and, hypertension-induced, H497
- Oxyhemoglobin**, microvascular saturation, cryospectrophotometry, H1912
- P**
- Pacemaker cell**, cardiac, mathematical model (bullfrog), H352
- Pacing**
atrial, inhomogeneity in conduction, H1254
rapid, ventricular dysfunction and (swine), H218
reperfusion, myocardial oxygen consumption and, H872
- PAF:** *see* Platelet-activating factor
- Papillary muscle:** *see* Muscle, heart
- Parasite**, products, endothelium-dependent responses in, H649
- Parasympathetic control**, heart rate, atrioventricular conduction and, H536
- Parasympathetic ganglia**, cardiac, neurotransmission in, H997
- PEEP:** *see* Pressure, positive end-expiratory
- Pentobarbital**, electrophysiological actions of, general anesthesia, H1743
- Pentoxifylline**, manipulation of clot structure, red cells, H1527
- Peptides:** *see also* Polypeptides
atrial, neural control, hypoxia and hypertension (pig), H735
vasoactive, pulmonary vasodilation and, H48
vasoactive intestinal
contractor, cardiovascular responses to, H1152
myocardial electrophysiological effects, H1559
- Peptidoleukotrienes**, hypoxic pulmonary vasoconstriction and, H751
- Perfusate**, rheology, diastolic coronary pressure-flow relations, H603
- Pericardial disease**, opioid blockade, awake state, H512
- Pericardium**
ventricular interdependence, theoretical model, H181
visceral, biaxial mechanical behavior of, H101
- Permeability**
capillary
albumin component, hydraulic conductivity and (frog), H1357
ANP effects, forearm, H258
atrial peptide action (frog), H1351
U74500A inhibition of, H144
edema and, hypertension-induced, H497
endothelial, charge effects on, H162
ion, pinacidil effects, resistance vessels, H14
neutrophil-mediated, elastase and, H1288
vascular, thrombin-induced, lung, leukocyte repletion and, H149
ventricular myocytes, potassium channel (guinea pig), H1448
- Pertussis toxin**
neuropeptide Y effects and, resistance arteriole contraction, H1427
relaxation and, coronary arteries, H1433
- pH**
arterial, cerebral blood flow during hyperammonemia and, H34
block of sodium and calcium channels dependent on, nicardipine, H1178
intramyocardial, during respiratory acidosis (ferret), H843
- Phenylephrine**
fetopiacental response (sheep), H473
intramural diffusion barrier, arteriolar reactivity and, H574
regulation of plasma ANF, afterload, awake state, H1736
- Phosphates**
high-energy
intracellular calcium and, myocytes, H1851
myocardial, reactive hyperemia, H1190
inorganic, hypoxia and reoxygenation, heart, H784
- Phospholipids**
alkyl ether, responsiveness during pregnancy, H766
membrane breakdown, iron effects, ischemic-reperfused heart, H1101
metabolism, endothelial cell denudation and, aorta, H442
- Pinacidil**, ion permeability and, resting and contracted resistance vessels, H14

- Placenta: *see also* Fetus; Pregnancy
feto-placental response, prostaglandins (sheep), H473
- Platelet-activating factor
coronary constriction to serotonin and, H1161
platelet responsiveness and, during pregnancy, H766
- Platelets, responsiveness, platelet-activating factor, during pregnancy, H766
- Polypeptides: *see also* Peptides
vasoactive intestinal, intracardiac neurons, neonate, H997
- Potassium
accumulation, atrial cells, model (bullfrog), H370
dilation, cerebral arteries, H902
furosemide-dependent fluxes, ventricular myocytes, H962
high, heart arrested by, oxygen consumption in, H1142
- Potassium channels
acetylcholine-sensitive, atrial myocytes, H1730
ATP-sensitive
G proteins and, ventricular myocytes, H820
quinidine blockade of, heart, H1609
opener, pinacidil effects on ion permeability, H14
pulmonary vasodilation and, H48
time-dependent, permeability of, ventricular myocytes (guinea pig), H1448
- Potassium chloride, depolarization, G protein expression in myocytes and, H432
- Potassium-chloride cotransport, ventricular myocytes, H962
- Potassium currents
G proteins, heartbeat regulation, H1621
specific component of, lanthanum blockade of, cardiac cells, H1881
- Potentials
action
atrial cell, model (bullfrog), H370
cardiac pacemaker cell (bullfrog), H352
evoked, global ischemia (pig), H1551
membrane
cerebral arterial hyperpolarization and dilation, H668
pinacidil effects on ion permeability, H14
transmembrane, insulin and isoproterenol effects, isolated myocytes, H554
- Prazosin, ³H-labeled, skeletal muscle, H1402
- Pregnancy: *see also* Fetus; Placenta
feto-placental response
prostaglandins (sheep), H473
vasoconstriction (sheep), H464
platelet responsiveness, platelet-activating factor effects on, H766
uterine and umbilical response, angiotensin II and norepinephrine (sheep), H197
- Pressure: *see also* Blood pressure
arterial
hypoproteinemia and, H1317
pulmonary, peptidoleukotrienes and, H751
rapid hemorrhage and, fetus, H567
spinal administration of neuropeptide Y, H1674
capillary, regulation, isolated arterioles, myogenic responses of, H1890
central venous, ANP effects, forearm, H258
intraluminal, coronary arterioles, H1063
left atrial
hypoxic pulmonary vasoconstriction, H93
regional peak lengthening rates and, H480
mean circulatory filling, aortic chemoreceptors and vascular capacitance, H933
overload
acidosis effects on skinned muscle fibers, H1044
long-term, changes during, heart, H849
positive end-expiratory
hypoxic pulmonary vasoconstriction and, H697
venous drainage, hindlimb, H1789
pulmonary artery, adaptations to high altitude, H1667
transmural, norepinephrine sensitivity and, renal arteries, H29
Pressure-diameter relations, regulation, sympathetic activity, H674
Pressure-flow relations
coronary, wall stretch effects, H1869
diastolic coronary, perfusate rheology in, H603
pulmonary, hypoxic pulmonary vasoconstriction, H697
Pressure-volume relations
atrial, left atrial compliance, H1006
force-velocity and end-systolic comparison, intrinsic left ventricular function, H1419
- Prostaglandins
alveolar reactive hyperemia, skeletal muscle, H1313
blockade, muscle afferent response to static contractions and, H745
cerebrovascular responses and, asphyxia and reventilation, newborn (pig), H662
dilation, cerebral arterioles, H1171
feto-placental (sheep), H473
metabolism, cardiac myocytes, H582
microcirculation and, during sepsis, H728
- Prostanoids
cerebral vascular activity and, newborn (pig), H1230
cerebrovascular responses and, asphyxia and reventilation, newborn (pig), H662
CSF, vasodilation and, recombinant interleukin 1 α (piglet), H1486
EDRF and, vasodilation, H1835
- Proteins
contractile, heart, hormones in hypertrophy, H866
guanine nucleotide-binding, heartbeat regulation, H1621
synthesis, inhibition, myocardial protection, H1822
- Protein kinase C
involvement, arteriolar myogenic reactivity, H1586
myofilament calcium sensitivity and, vascular smooth muscle, H2
- Pulmonary artery
cGMP-associated relaxation, superoxide anion effects, H1056
relaxation and cGMP formation, L-arginine-dependent, H1813
responses, C5a anaphylatoxin, H1325
tension, hypoxia effects, H281
- Pulmonary vein, endothelium and mechanical responses, histamine (monkey), H1032
- Pump
sodium, potassium dilation of arteries, H902
sodium-potassium, dependence on sodium, cardiac myocytes, H488
- Pyruvate, oxidation, substrate preference, early myocardial reperfusion, H317
- ## Q
- Quinidine, blockade, potassium channels, heart, H1609
- ## R
- Receptors
adrenergic, bronchial arteries, H156
 α -adrenergic
aorta and coronary artery, quantitative and autoradiographic analyses, H1343
hemodynamic response to aortic cross clamping and, H68
myogenic interaction, microvascular smooth muscle, H1126
 β -adrenergic
cerebral blood flow during stress, H269
reduced sensitivity, heart failure, H1009
single cardiomyocytes, high-speed digital imaging, H230
 α_1 -adrenergic, distribution, skeletal muscle, H1402
baroreceptors
blood pressure oscillations, awake state, H1050
sinoaortic, denervation, posterior hypothalamic stimulation in, H720
cardiac
angiotensin II in, H610
pressure-overload, renin-angiotensin system involvement in, H324
chemoreceptors, aortic, vascular capacitance and, H933
H₁ and H₂, pulmonary vein responses (monkey), H1032
neuropeptide, hemodynamic effects, H174
serotonergic, aorta and coronary artery, quantitative and autoradiographic analyses, H1343
 β subtypes, coronary circulation, H1575
- Red blood cells: *see* Erythrocytes
- Reflexes
baroreflex
sensitivity, aortic blood flow, H448
sensory afferent synaptic transmission, medial nucleus tractus solitarius, H1307
sinoaortic, denervation, posterior hypothalamic stimulation in, H720
carotid baroreceptor-cardiac, heart failure, H689
renal nerve activity, isometric muscle contraction, H1380
- Renal artery, elevated transmural pressure, norepinephrine sensitivity and, H29

Renal nerve activity
hemorrhage effects in anesthesia, H1134
reflex responses, isometric muscle contraction, H1380
spinal administration of neuropeptide Y, H1674

Renin, plasma activity, rapid hemorrhage and, fetus, H567

Renin-angiotensin system
long-term vascular influence, abolition of, H543
pressure-overload cardiac hypertrophy and, H324

Reoxygenation
hypoxia and
lung glutathione system, H518
myocardium, H784

Resistance
brain vessels, tone regulation of, H243
coronary
adenosine response, ontogeny of (guinea pig), H1637
nondefatted albumin and, saline-perfused heart, H1606
oxygen consumption in arrested hearts, H1142
pulmonary vascular, PEEP effects, H697
total peripheral, high-salt intake effects, H1629
vascular
during heat stress, H1796
fetoplacental response (sheep), H464
hemodynamics, hypertension, and behavior, H248
hypoxemia and, H1197
venous drainage, hindlimb, H1789

Resistance artery, saline infusion, contraction and, H23

Resistance vessels, resting and contracted, pinacidil effects on ion permeability, H14

Reventilation, cerebrovascular responses to, prostanoid effects, newborn (pig), H662

Rhythms
atrial, irregular, ventricular response during, H1015
AV junctional, sympathetic-parasympathetic imbalance, heart, H839

Ryanodine
contractility, ventricular myocytes, H395
contraction and calcium content, sarcoplasmic reticulum (guinea pig), H1222

S

Saline, infusion, contraction in resistance artery and small vein, H23

Salt, intake, high, hemodynamics of, H1629

Sarcolemma, reperfusion injury, subcellular distribution of peroxidized lipids, H116

Sarcomere
length
intracellular calcium and high-energy phosphates, H1851
subepicardium and subendocardium, H204

Sarcoplasmic reticulum
acidosis effects, skinned muscle fibers, H1044

calcium content, single myocytes, heart (guinea pig), H1222
calcium release, exercise training effects (pig), H643
calcium transients, ventricular myocytes, H395
calcium waves, myocytes, H940
reperfusion injury, subcellular distribution of peroxidized lipids, H116

Sepsis, microcirculation during, prostaglandin effects, H728

Serotonin
activation, L-arginine pathway, coronary arteries, H1433
coronary constriction to, leukocyte and PAF augmentation, H1161
resistance, brain vessels, H243

Sex hormones, hypertrophy and, cardiac, male and female, H866

Shock
hypovolemic
central angiotensin system and hypertonic resuscitation, H1752
nucleotide pools, heart and brain, H1781
microvascular response, skeletal muscle, H190
muscle blood flow during, laser-Doppler flowmetry, H860
opioid blockade, awake state, H512
septic, antibiotics versus cardiovascular support, model, H1440

Shunt, diffusion, inert gas transport, myocardium, H167

Sinoatrial node
heart rate and, separate parasympathetic control, H536
parasympathetic postganglionic pathways, H1504

Skin
hyaluronan removal rate, H532
prenodal lymph, hyaluronan in, H1097
vascular bed, blood reservoir during heat stress, H1796

Sodium
anti-free radical agent effects on, heart, H137
excretion, ANF release and, high-output heart failure, H1374
extracellular, low, inotropic effects, heart, H712
sodium-potassium pump dependence on, cardiac myocytes, H488

Sodium-calcium exchange, contraction and, vascular smooth muscle, H409

Sodium channels
blockade, estimatability of, model, H626
pH-dependent block of, nifedipine, H1178

Sodium chloride, intake, high, hemodynamics of, H1629

Sodium currents, G proteins, heartbeat regulation, H1621

Sodium gradient, influence on calcium transients, vascular smooth muscle, H409

Sodium-hydrogen exchange, role in respiratory acidosis, heart (ferret), H843

Sodium nitroprusside, capillary permeability (frog), H1357

Sodium-potassium-ATPase, sarcolemmal, oxygen radicals, neutrophils and, H1330

Sodium-potassium pump: see Pump

Soleus muscle, adenosine, active hyperemia and, H1295

Spectroscopy
near-infrared, cardiac oxygenation during ischemia and reperfusion, H1477
nuclear magnetic resonance
heart and brain nucleotide pools in shock, H1781
myocardial energy metabolism during hyperemia, H1190
sodium, heart during ischemia and reperfusion (ferret), H1767
tricarboxylic acid cycle, heart, model, H987
optical, microvascular oxyhemoglobin saturations, H1912

Spinal cord, hypothermia, regional blood flow and, H1649

Splanchnic nerve, stimulation, catecholamine secretion effects, H681

Stress
cardiovascular reactivity and, H248
energy metabolism and blood flow during, brain, H269
heat, skin vascular bed as potential blood reservoir, H1796
wall, left ventricular, myocardial dysfunction and, H1086

Substrates, preference, oxidative metabolism, early myocardial reperfusion, H317

Superoxide anions
cGMP-associated relaxation and, pulmonary artery, H1056
neutrophils, sarcolemmal sodium-potassium-ATPase and, H1330

Superoxide dismutase
catalase and, myocardial stunning, H889
cGMP-associated relaxation and, pulmonary artery, H1056
dilation, cerebral arterioles, H1171
endothelial dysfunction, cardiac ischemia, H1660
permeability and edema and, hypertension-induced, H497
sodium, calcium, and function, heart, H137

Superoxide radicals, endothelial dysfunction, cardiac ischemia, H1660

Sympathectomy, blood pressure and, awake state, H1337

Sympathetic activity
graded central hypovolemia, hypoxemia and, H1197
regulation, venular pressure-diameter relations, H674

Sympathetic nerves
activity
hemorrhage effects in anesthesia, H1134
reflex responses, isometric muscle contraction, H1380
adrenergic denervation, diabetes mellitus, H55

Sympathetic nervous system, regulation, venular pressure-diameter relations, H674

Synaptic mechanism, regulation, cardiovascular afferent input to solitary tract nucleus, H653

Systole, regional finite strains, left ventricle, H1409

T

Tachycardia, supraventricular, ventricular dysfunction and (swine), H218

H1950

- Temperature, heat stress, skin vascular bed as potential blood reservoir, H1796
- 12-*O*-Tetradecanoylphorbol-13-acetate, myofilament calcium sensitivity and, vascular smooth muscle, H2
- Theophylline, adenosine regulation, cerebral blood flow, H1703
- Thermopile, analysis, contracting heart muscle, H1601
- Thrombin, vascular permeability induced by, lung, leukocyte repletion and, H149
- Thromboxane
 - blockade, muscle afferent response to static contractions and, H745
 - coronary constriction to serotonin and, H1161
 - myogenic interaction, vascular adrenoceptors, H1126
- Tissue, connective, hyaluronan removal rate, H532
- Tricarboxylic acid, heart, model, H987
- Tyramine
 - adrenergic and cholinergic responses, bronchial arteries, H156
 - blood pressure and, awake state, H1337

U

- Umbilical cord, vasculature, response to angiotensin II and norepinephrine (sheep), H197
- Uterus, vasculature, response to angiotensin II and norepinephrine (sheep), H197

V

- Vagus nerve
 - cardiac, separate effects, H536
 - postganglionic, parasympathetic pathways, H1504
- Vascular bed, systemic, responses to vasoactive intestinal contractor peptide, H1152

SUBJECT INDEX TO VOLUME 28

- Vascular leakage, neutrophil-mediated, leukocyte elastase inhibitors, H1288
- Vasoconstriction
 - adenosine, inosine potentiation of, H759
 - cholinergic regulation, coronary blood flow (swine), H109
 - coronary
 - neuropeptide receptors and, H174
 - pathway, H917
 - coronary resistance, nondefatted albumin and, saline-perfused heart, H1606
 - endogenous, aortic cross-clamping and, H68
 - endothelin effects, cerebral microvasculature, H1688
 - fetoplacental response to, angiotensin II and α -agonist (sheep), H464
 - hypoxic, superoxide anion inhibition of, pulmonary artery, H1056
 - hypoxic pulmonary
 - increased left atrial pressure, H93
 - PEEP effects, H697
 - peptidoleukotrienes and, H751
 - tension and, arteries, H281
 - pulmonary, flow-independent, halothane and, H74
 - systemic, endothelin effects, newborn (pig), H1613
- Vasoconstrictor agents, infusion, regional autoregulatory response during, awake state, H1270
- Vasodilation
 - adenosine
 - inosine potentiation of, H759
 - thoracic aorta, H62
 - adrenergic, coronary circulation, H1575
 - cerebral, endothelium-dependent, membrane hyperpolarization and, H668
 - EDRF role in, at birth, H1921
 - endothelin-induced, H1835
 - flow-mediated, *N*-acetyl-L-cysteine and, H804
 - increased CSF prostanoids and, recombinant interleukin 1 α (piglet), H1486

- metabolic, cerebral arteries, H902
- nicotine-induced, muscle, epinephrine release effects, H1718
- pulmonary
 - endothelin 1 and, H48
 - endothelin effects, newborn (pig), H1613
- Vasodilator nerve, stimulation, cerebral arteries, mechanism of response, H1511
- Vasopressin: *see also* Antidiuretic hormone
 - arginine, rapid hemorrhage and, fetus, H567
 - positive inotropic action of, endocardial endothelium in, H1148
 - regulation of plasma ANF, afterload, awake state, H1736
- Ventilation, controlled, halothane anesthesia effects, H74
- Ventricular cells: *see* Myocytes, ventricular
- Verapamil, hypoxia effects, pulmonary and mesenteric arteries, H281
- Vinblastine, skeletal muscle dysfunction, ischemia-reperfusion, H1809
- Volume: *see also* Blood volume
 - expansion, ANF release and, high-output heart failure, H1374
 - fixed hemorrhage, skeletal muscle, H190
 - fluid, high-salt intake effects, H1629
 - intravascular, displacement, ANF influence (pig), H1595
 - overload, left ventricular, captopril in, H796

W

- White blood cells: *see* Leukocytes

X

- Xanthine dehydrogenase, conversion to oxidase, cerebral ischemia, H1655
- Xanthine oxidase, neutrophils, sarcolemmal sodium-potassium-ATPase and, H1330

Author Index to Volume 28

- Aalkjær, C., H14
 Abman, S. H., H1921
 Acad, B.-A., H872
 Aceto, J. F., H324, H610
 Adams, D. J., H997
 Adams, H. R., H504
 Adamson, S. L., H1247
 Akin, G. L., H1440
 Allesie, M. A., H300, H1015, H1254
 Alsip, N. L., H728
 Amruthesh, S. C., H1171
 Anderson, F. L., H1559
 Anderson, W., H333
 Andon, N., H804
 Andre, P., H1427
 Andresen, M. C., H1307
 Andriantsitohaina, R., H1427
 Andries, L. J., H1148
 Anversa, P., H1086
 Arentzen, C. E., H1730
 Arfors, K.-E., H190, H1288
 Armour, J. A., H1108, H1207, H1365
 Armstead, W. M., H1230
 Arts, T., H300
 Asai, T., H264
 Augustijn, C. H., H300
 Aversano, T., H603
 Aydelotte, M. R., H1681
 Azhari, H., H1492
- Baan, J., H1419
 Baena, R. C., H1752
 Baertschi, A. J., H735
 Baker, K. M., H324, H610
 Banks, S. M., H1440
 Barres, C., H1337
 Barron, K. W., H720, H1718
 Barry, W. H., H962
 Bass, J. B., H144
 Bassett, A. L., H1044
 Baudet, S., H1803
 Bauman, R. P., H1477
 Baumbach, G. L., H560
 Beck, L. D., H1518
 Behm, L. L., H504
 Belardinelli, L., H1471
 Bennett, T., H448
 Berman, M. R., H1566
 Berne, R. M., H62, H1471, H1637
 Bers, D. M., H951
 Bevan, J. A., H23
 Beyar, R., H1492
 Birnbaumer, L., H264, H820
 Blasberg, R. G., H1278
 Blaustein, M. P., H281, H409
 Blizzard, K., H1551
 Bluemel, K. M., H1504
 Bodine, R. C., H1518
 Bohlen, H. G., H674
 Bohr, D. F., H1
 Bolli, R., H889, H1901
 Bonham, A. C., H917
 Borgström, P., H190
 Borzak, S., H973
 Boublik, J. H., H174
- Bouma, P., H1606
 Bova, S., H409
 Brace, R. A., H567
 Bradley, L. M., H1613
 Bradley, W. E., H68
 Brayden, J. E., H668
 Brecher, P., H442
 Bredle, D. L., H68
 Breslow, M. J., H681
 Brimiouille, S., H93
 Brody, M. J., H917
 Broge, C. W., H1759
 Broten, T. P., H1575
 Brown, A. M., H820, H1621
 Brown, M. R., H174
 Brownlee, R. D., H1247
 Brugada, J., H1015
 Bruschke, A. V. G., H1419
 Brusilow, S. W., H34
 Brutsaert, D. L., H1148
 Bruttig, S. P., H190
 Bryan, R. M., Jr., H269
 Buga, G. M., H1813
 Buja, L. M., H582
 Burkhoff, D., H1142
 Burnashev, N., H1609
 Burnett, J. C., Jr., H982
 Busija, D., H662
 Busija, D. W., H1230, H1486
 Butler, C. K., H1108, H1365
 Butters, C. A., H1681
 Buttrick, P., H866
 Byrns, R. E., H1813
- Cain, S. M., H68
 Campbell, D. L., H352, H370
 Campbell, R. W., H735
 Campbell, W. B., H582
 Capasso, J. M., H1086
 Cappelli-Bigazzi, M., H1161
 Carabello, B. A., H218
 Cardinal, R., H1365
 Carlson, D. E., H735
 Carr, M. E., Jr., H1527
 Cernacek, P., H1928
 Cerutti, C., H1337
 Channing, M., H1278
 Chatfield, B. A., H1921
 Chen, B. B., H74
 Chen, S., H835
 Chen, X., H1674
 Chernin, M. I., H324
 Cherry, P. D., H1056
 Cheung, C. Y., H567
 Chien, C.-Y., H1718
 Chien, K. R., H582
 Chilian, W. M., H1063
 Chobanian, A. V., H442
 Chorro, F. J., H1015
 Christensen, G., H1595
 Chu, A., H340
 Cianflone, K., H1928
 Cimini, C. M., H346
 Cingolani, H. E., H843
 Clark, J. W., H352, H370
 Clark, K. E., H197
 Clark, R. B., H370
 Claycomb, W. C., H1826
 Cobb, F. R., H340
- Codina, J., H264, H820
 Cohen, R. A., H55, H442
 Cole, D. J., H211
 Cole, W. C., H712
 Coleman, G. M., H1022
 Compton, A. M., H448
 Cooke, J. P., H804
 Cowan, C. L., H109
 Cowley, A. W., Jr., H258, H1270, H1629
 Crawford, F. A., H218
 Crowell, R. E., H1325
 Crum, R. L., H174
 Cryer, H. G., H728
 Currie, R. W., H424
 Czaja, J. F., H1613
 Czartolomna, J., H751
- Dahm, M., H457
 Danner, R. L., H1440
 Das, A. M., H1264
 Das, D. K., H1101
 Daulat, G., H706
 Davidenko, J. M., H290
 Davies, P. F., H804
 Davis, C. A., III, H1006
 Davis, M. J., H1063, H1889
 Deale, O. C., H1544
 De Francquen, P., H93
 de Jong, J. W., H759
 Delcarpio, J. B., H1826
 Dellsperger, K. C., H909
 Deschamps, A., H1796
 De Smet, J.-M., H93
 Detwiler, K. N., H560
 Dhalla, N. S., H712
 Diana, J. N., H1718
 Dibner-Dunlap, M. E., H689
 Doeller, J. E., H1851
 Doerfler, M. L., H1440
 Domino, K. B., H697
 Downey, J. M., 1822
 Drenth, J. P., H2
 Dresdner, K. P., H1826
 Drewe, J. A., H1389
 Drossner, M., H603
 Drummond, J. C., H211
 duBell, W. H., H395
 Duff, M. J., H1504
 Duling, B. R., H574
 Dutka, A. J., H1655
- Eastham, C. L., H909
 Ebert, T. J., H258
 Eckberg, D. L., H689
 Eckel, J., H554
 Egashira, S., H9
 Eggena, P., H1774
 Ehmke, H., H1050
 Ehrliche, Y. H., H766
 Elin, R. J., H1440
 Elizari, M. V., H290
 Ellis, E. F., H497, H1171
 Elsner, D., H1643
 Elzinga, G., H1601
 Engelman, R. M., H1101
 Enquist, E. G., H1809
- Eroshenko, D., H1609
 Eskinder, H., H29
- Faber, J. E., H1126
 Falcone, J. C., H1586
 Faraci, F. M., H1216
 Farrell, K. A., H1056
 Fehr, D. M., H74
 Feigl, E. O., H1575
 Feitler, D. A., H116
 Felder, R. B., H653
 Fenton, B. M., H1912
 Ferguson, J. L., H635
 Fieber, L. A., H997
 Field, L. J., H1826
 Flanagan, A. D., H932
 Fleidervish, I., H1609
 Fleming, I., H1038
 Forssmann, W.-G., H1643
 Foster, K. A., H432
 Fraser, J. R. E., H532
 Frater, R. W. M., H457
 Freeman, G. L., H619
 Fritsch, J. M., H689
 Fujiwara, M., H1
 Furukawa, N., H1044
 Furukawa, T., H1044
 Furukawa, Y., H839
- Gann, D. S., H735
 Garcia, R., H1374
 Garcia-Szabo, R. R., H149
 Gardiner, S. M., H448
 Garrison, R. N., H728
 Gaugl, J. F., 1667
 Gay, R. G., H796
 Gayeski, T. E. J., H1912
 Gebhart, G. F., H917
 Gelman, S., H68
 Gerstenblith, G., H1142
 Gewitz, M. H., H1736
 Gibbs, C. L., H849
 Gidday, J. M., H1471
 Giles, W. R., H352, H370
 Gilliam, F. R., H626
 Gilliam, F. R., III, H1178
 Glantz, S. A., H1305
 Gober, J., H1190
 Gold, M. E., H1813
 Goldman, W. F., H409
 Goldstein, R. E., H1613
 Goll, H. M., H74
 Golub, M., H1774
 Granger, D. N., H390, H925
 Granger, H. J., H925
 Grant, A. O., H626, H1178
 Graves, W. L., H1492
 Gray, G. A., H1038
 Greene, A. S., H1270
 Greene, G. M., H560
 Greenfield, J. C., Jr., H1006, H1477
 Greenwald, B. H., H728
 Groban, L., H258
 Groebe, K., H84
 Grupp, I. L., H1759
 Gutterman, D. D., H917
 Gwathmey, J. K., H784

- Hadley, R. W., H1448
 Hagen, P.-O., H340
 Hajjar, R. J., H784
 Hall, S. L., H1921
 Hallemans, R., H93
 Hallenbeck, J. M., H1655
 Halperin, H. R., H1869
 Halpern, W., H902
 Hamada, Y., H218
 Hansford, R. G., H1222
 Harder, D. R., H29
 Harding, S. E., H1009
 Harris, D. A., H1264
 Harris, P. D., H728
 Harrison, D. G., H1161
 Hart, M. N., H162
 Hartley, C. J., H448
 Hassan, A. S., H1185
 Hasunuma, K., H48
 Hauge, Y., H1527
 Haunss, S., H1709
 Haynes, J., Jr., H144
 Headrick, J. P., H62, H1637
 Hearse, D. J., H879
 Heesch, C. M., H720, H1718
 Heistad, D. D., H560
 Helfaer, M. A., H1551
 Helgesen, K. G., H1595
 Hellebrekers, L. J., H1270
 Heller, L. J., H772
 Hellige, G., H167
 Hendley, E. D., H248
 Hendrick, D. A., H218
 Henry, P. D., H1933
 Herland, J. S., H1118
 Hess, M. L., H1330
 Higuera, T. R., H1152
 Hill, J. M., H745
 Hill, M. A., H1586
 Hintze, T. H., H1736
 Hisatome, I., H1730
 Hock, C. E., H1518
 Hoeft, A., H167
 Hoffman, W. D., H1440
 Hoit, B. D., H480
 Hopkins, D. A., H1207, H1365
 Horton, J. W., H309, H1781
 Hosseini, J. M., H1440
 Houser, S. R., H395
 Housmans, P. R., H827
 Hryshko, L. V., H951
 Hughes, A. D., H14
 Hume, J. R., H1448
 Humphrey, J. D., H101
 Hunter, W. C., H1566
 Huxley, V. H., H1351, H1357
 Ignarro, L. J., H1813
 Ilebakk, A., H1595
 Inauen, W., H925
 Inoue, K.-I., H940
 Intaglietta, M., H190
 Irion, G. L., H197
 Isenman, D., H525
 Ishide, N., H940
 Iwai, A., H1649
 Jackson, R. M., H518
 Jacobus, W. E., H1566
 Janzen, D. L., H909
 Jeffrey, F. M. H., H987
 Jeroudi, M. O., H889, H1901
 Jiao, J.-H., H735
 Jones, R. M., H1101
 Jones, S. M., H1009
 Jørgensen, J., H1709
 Joyce, E. H., H23
 Julian, F. J., H1118
 Julien, C., H1337
 Julou-Schaeffer, G., H1038
 Jurkiewicz, N. K., H1881
 Kadish, A. H., H1463
 Kadowitz, P. J., H1152
 Kaiser, L., H648
 Kaley, G., H1313
 Kalil-Filho, R., H1142
 Kandza, P., H1337
 Karaki, H., H1
 Karmazyn, M., H424, H1239
 Kaufman, M. P., H745
 Kaufman, T. M., H309
 Kauser, K., H29
 Kawai, R., H1278
 Kawai, Y., H42
 Kedem, J., H872
 Keller, R. S., H504
 Kelly, R. A., H973
 Kempfsford, R. D., H879
 Khalil, R. A., H2
 Kimura, S., H1044
 Kirchheim, H. R., H1050
 Kirchhof, C. J. H. J., H1015, H1254
 Kirsch, G. E., H820
 Kirsch, J. R., H1551
 Kitakaze, M., H1767
 Klopfenstein, H. S., H512
 Knardahl, S., H248
 Knuepfer, M. M., H1674
 Ko, K. R., H1703
 Koehler, R. C., H34
 Köhler, W. W., H1050
 Kohmoto, O., H962
 Kolar, F., H712
 Koller, A., H1313
 Komaru, T., H940
 Kon, K., H1071
 Korb, H., H167
 Koretsune, Y., H843
 Kornecki, E., H766
 Kotsanas, G., H849
 Kou, W. H., H1463
 Krahmer, R. L., H635
 Kralios, A. C., H1559
 Kralios, F. A., H1559
 Krämer, B. K., H973
 Krams, R., H1869, H1934
 Krause, S. M., H813
 Kresh, J. Y., H1934
 Krieger, J. E., H1629
 Kromer, E. P., H1643
 Krueger, J. A., H962
 Kuga, T., H9
 Kukreja, R. C., H1330
 Kumaroo, K. K., H1655
 Kunze, D. L., H1389
 Kuo, L., H1063, H1694
 Kviety, P. R., H925
 Laborde, A. L., H1270
 Lachance, D., H1374
 Lai, E. K., H1901
 Lakatta, E. G., H1222
 Lammers, W. J. E. P., H1254
 Lamping, K. G., H1161
 Landon, M., H174
 Langer, G. A., H592, H1222
 Langille, B. L., H1247
 Langleben, D., H1928
 Langston, M. A., H1152
 Lanson, N. A., Jr., H1826
 Laughlin, M. H., H643
 Laurent, T. C., H532, H1097
 Laurent, U. B. G., H532
 Leeman, M., H93
 Lefer, A. M., H1660
 Leff, J. A., H1809
 Leffler, C., H662
 Leffler, C. W., H1230, H1486
 Lejeune, P., H93
 Lerman, B. B., H1544
 Levi, R. J., H290
 Levy, B. I., H403
 Levy, M. N., H839
 Lew, M. J., H574
 Lew, W. Y. W., H480, H1409
 Lewartowski, B., H1222
 LeWinter, M., H480
 Li, X.-Y., H1901
 Liard, J.-F., H1270, H1629
 Liauw, S., H525
 Lichtlen, P. R., H167
 Liedtke, A. J., H317
 Lin, C.-C., H340
 Lindbom, L., H190
 Lipsius, S. L., H1842
 Liu, G. S., H1822
 Liu, X., H1101
 Livingston, J. Z., H1869
 Lo, M., H1337
 Lo, S. K., H149
 Loftus, C. M., H560
 Lombard, J. H., H29, H860
 Lopaschuk, G. D., H1079
 Lorenz, R. R., H982
 Loscalzo, J., H804
 Loureiro, M. I., H1752
 Lüscher, T. F., H1433
 Maass-Moreno, R., H932
 Mack, C. E., H197
 MacVittie, T. J., H1440
 Maeda, N., H1071
 Magder, S., H1789, H1796
 Magness, R. R., H464, H473
 Mahony, L., H309
 Maid, G., H290
 Mailer, K., H424
 Makielski, J. C., H1609
 Malhotra, A., H866
 Malik, A. B., H149
 Malloy, C. R., H987
 Mandrell, T. D., H681
 Manning, R. D., Jr., H1317
 Manohar, M., H1185
 Marban, E., H843, H1767
 Marcus, M. L., H909, H917
 Marsh, J. D., H333, H973, H1533
 Martin, P., H839
 Martin, P. J., H536
 Martin, W. H., III, H1402
 Massie, B., H1190
 Mast, F., H1601
 Matherne, G. P., H1637
 Mathias, D. W., H512
 Mathieu-Costello, O., H204
 Matoba, Y., H973
 Matsukawa, K., H1380
 Matsuki, T., H1032
 Matsumoto, M., H1134
 Matsumura, J., H211
 Matthews, C., H1743
 Mayhan, W. G., H1455
 Mazzoni, M. C., H1860
 McCarron, J. G., H902
 McCay, P. B., H1901
 McCutchan, H. J., H1809
 McDermott, P. J., H432
 McDonald, G., H1781
 McDonald, T. F., H264
 McDonnell, T. J., H751
 McKenzie, J. E., H109, H1295
 McKinley, G., H804
 McKinney, J. S., H1171
 McMurtry, I. F., H48, H1921
 McVeigh, J. J., H1079
 Meininger, C. J., H925
 Meininger, G. A., H1126, H1586
 Melot, C., H93
 Meulemans, A. L., H1148
 Meyer, D. J., Jr., H1351, H1357
 Meyerhoff, D. J., H1190
 Michel, M. C., H174
 Mickle, D. A. G., H116
 Mifflin, S. W., H653
 Mikkelsen, J. D., H1709
 Miles, R., H1389
 Mink, R. B., H1655
 Minkes, R. K., H1152
 Mirro, R., H1230
 Mitchell, J. H., H1380
 Mitsuoaka, W., H9
 Moffat, M. P., H1239
 Mogul, D. J., H488
 Mohrman, D. E., H772
 Monafu, W. W., H1649
 Moore, S. A., H162
 Morady, F., H1463
 Morgan, D., H1544
 Mossberg, K. A., H1022
 Motomura, S., H174
 Mulvany, M. J., H14
 Murashita, T., H879
 Murphy, D. A., H1365
 Murray, J. J., H340
 Murray, P. A., H74
 Myerburg, R. J., H1044
 Nadler, J. L., H1774
 Naeije, R., H93
 Nakajima, T., H1071
 Nakamura, M., H9, H1343
 Natanson, C., H1440
 Nattel, S., H1743
 Navas, J. P., H333
 Nellis, S. H., H317
 Nelson, G. H., H243, H1396
 Nesterenko, V. V., H626
 Newman, A. H., H1278
 Ngai, A. C., H1703
 Nguyen, V. T. B., H1022
 Nicholson, J., H1108
 Nikolic, S. D., H457
 Nishimura, H., H1396
 Nishimura, J., H2
 Nonomura, Y., H1
 Nozawa, K., H1774
 Nuno, D. W., H1161
 Nyhan, D. P., H74
 O'Brien, R. F., H48
 Ochoa, M., H1736
 O'Gara, P., H1009
 Ohhashi, T., H42, H1032
 Ohlstein, E. H., H1835
 Okamura, T., H1511
 Olivetti, G., H1086
 Omar, H. A., H1056
 O'Neill, M., H1533

- Orner, F. B., H592
 O'Rourke, B., H230
 O'Rourke, S. T., H156
 Osborn, J. L., H29
 Osborne, T. N., H211
 Ostadal, B., H712
 O'Toole, M. F., H1504
- Paaske, W. P., H1709
 Pajaro, O., H457
 Palackal, T., H1086
 Papa, L., H181
 Parker, J. L., H504
 Parratt, J. R., H1038
 Parrillo, J. E., H1440
 Parsons, W. J., H1477
 Patel, B. S., H889, H1901
 Patel, M. B., H1736
 Pelzer, D., H264
 Pelzer, S., H264
 Persson, P. B., H1050
 Phillips, C. L., H1471
 Piantadosi, C. A., H1477
 Pike, M. M., H1767
 Pinsky, M. R., H697
 Pittman, R. N., H1694
 Police, R. J., H1171
 Poole, D. C., H204
 Poole-Wilson, P. A., H1009
 Pourcyrus, M., H662
 Prasad, M. R., H1101
 Prinzen, F. W., H300
- Qian, S., H1718
- Racusen, L. C., H681
 Raff, H., H681
 Randall, R. D., H543
 Randall, W. C., H1504
 Rasmusson, R. L., H352, H370
 Reed, R. K., H532, H1097
 Reed, W. P., H1325
 Reers, M., H973
 Reibel, D. K., H230, H1518
 Reilly, J. M., H1440
 Reinauer, H., H554
 Reiss, O. K., H1809
 Rembert, J. C., H1006, H1477
 Reneman, R. S., H300
 Renstrom, B., H317
 Repine, J. E., H1809
 Resar, J., H1869
 Revtyak, G. E., H582
 Rice, K. C., H1278
 Rich, T. L., H592
 Richard, V., H1433
 Riegger, G. A. J., H1643
 Rivas, P. A., H1178
 Rivier, J. E., H174
 Robinson, K., H370
 Robishaw, J. D., H432
 Rocha e Silva, M., H1752
 Rodman, D. M., H48
 Rogers, G. F., H1152
 Rogers, W. J., H1492
 Roman, R. J., H860
 Romaschin, A. D., H116, H525
 Rosenbaum, M. B., H290
 Rosenblum, W. I., H243, H1396
 Rosenfeld, C. R., H464, H473
 Rosengren, S., H1288
 Rosenshtraukh, L. V., H1609
 Rothe, C. F., H932
- Rotto, D. M., H745
 Rouslin, W., H1759
 Rowe, R. W., H1022
 Rowell, L. B., H1197
 Rubin, B. B., H525
 Rubin, L. J., H281
 Rubio, R., H1471
 Russell, M., H340
 Rutlen, D. L., H1595
- Saffitz, J. E., H1402
 Sahagun, G., H162
 Saito, H., H1134
 Sakamoto, T., H1649
 Sanchez-Ferrer, C. F., H982
 Sanguinetti, M. C., H1881
 Santamore, W. P., H181
 Sarelius, I. H., H124
 Sassard, J., H1337
 Sato, R., H1730
 Satoh, S., H9
 Sauermelch, C., H1835
 Sauermelch, C. F., H1688
 Sawada, Y., H1278
 Schaefer, S., H1190
 Schalij, M. J., H1254
 Scheel, K. W., H706, H1667
 Schelling, M. E., H925
 Scheuer, J., H866
 Schmaltz, S., H1463
 Schmid-Schönbein, G. W., H1860
 Schoemaker, I. E., H1148
 Schott, C., H1038
 Schrock, G. D., H635
 Schultz, H. D., H745
 Schwappach, J. R., H1809
 Schwartz, G. G., H1190
 Schwartz, L. M., H1295
 Scott, N. A., H174
 Seabrook, G. R., H997
 Seals, D. R., H1197
 Seavey, E., H1667
 Seibert, A., H144
 Sejrsen, P., H1709
 Sen, L., H1533
 Shaffer, T., H181
 Shanklin, D. R., H1230
 Shanley, P. F., H1809
 Shapiro, E. P., H1492
 Sheikh, S. P., H1709
 Sheldon, E. A., H1152
 Sherry, A. D., H987
 Shibata, E. F., H352, H370
 Shibata, M., H1486
 Shibata, T., H1566
 Shiga, T., H1071
 Shoukas, A. A., H674
 Shuba, Y. M., H264
 Sideman, S., H1492
 Sikes, P. J., H1890
 Singer, A., H1736
 Singer, D. H., H488, H1730
 Sipkema, P., H1869, H1934
 Skalak, T. C., H1860
 Smekal, A., H1190
 Smith, A., H525
 Smith, A. C., H218
 Smith, F. M., H1108, H1365
 Smith, M. L., H689
 Smith, T. W., H1533
 Sopher, S. M., H689
- Sperelakis, N., H639
 Spinale, F. G., H1218
 Stamler, J., H804
 Stanley, A., H1822
 Starmer, C. F., H626, H1178, H1609
 Stehno-Bittel, L., H643
 Steinhilper, M. E., H1826
 Stephenson, D. G., H1118
 Stern, N., H1774
 Stewart, D. J., H1928
 Stewart, J. M., H1736
 Stoclet, J.-C., H1038, H1427
 Striplin, S., H1822
 Strumpf, R. K., H101
 Stuart, J. S., H1056
 Sturek, M., H643
 Svendsen, J. H., H1709
 Swafford, A., H1822
 Sweeney, T. E., H124
- Taegtmeyer, H., H1022
 Tagawa, H., H9
 Takasaki, I., H442
 Takishima, T., H940
 Tani, M., H137
 Tanner, F. C., H1433
 Taylor, A. E., H144, H1097
 Teague, W. G., H735
 Ten Eick, R. E., H488
 Terada, L. S., H1809
 Tesfamariam, B., H55
 Tewson, T. J., H1022
 Thelin, O., H1230
 Thews, G., H84
 Thibault, G., H1374
 Thomas, A. P., H230
 Thomas, U., H116
 Thornton, J., H1822
 Tietjan, C. S., H1471
 Tithof, P. K., H648
 Tobin, J. R., H681
 Tochiara, M., H1134
 Tod, M. L., H281
 Toda, N., H1511
 Togashi, H., H1134
 Tohs, N., H639
 Tolley, T. K., H1402
 Tomanek, R. J., H1681
 Tomoike, H., H9, H1343
 Toung, T. J. K., H1551
 Traustman, R. J., H34, H681, H1551
 Triana, F. J., H889
 Triana, J. F., H1901
 Tribble, C. G., H1471
 Trivella, M. G., H1575
 Tsao, P. S., H1660
 Tschudi, M., H1433
 Tsunekawa, K., H1071
 Tsutsui, H., H1343
 Tuck, M. I., H1774
 Tulenko, T. N., H1933
 Tumiat, L., H116
- Undrovinas, A. I., H1609
 Urayama, T., H940
- van Beek, J. H. G. M., H1606
 Van Breemen, C., H2
 van der Linden, L. P., H1419
 Van der Meer, P., H759
- van der Velde, E. T., H1419
 Van Epps, D. E., H1325
 Vanhoutte, P. M., H156, H982
 Van Winkle, D. M., H1822
 Veal, C. F., H518
 Velasco, I. T., H1752
 Ventura-Clapier, R., H1803
 Vescovo, G., H1009
 Vicaud, E., H403
 Vickery, L., H1835
 Videbæk, L. M., H14
 Villarreal, F. J., H1409
 Voelkel, N. F., H751
- Walden, D. L., H1809
 Walker, P. M., H525
 Wall, P. T., H1380
 Wallick, D. W., H536
 Wang, J., H1736
 Wang, Z., H1743
 Wasserstrom, J. A., H1730
 Watanabe, N., H42
 Weaver, A. B., H1330
 Webb, R. C., H1
 Weigle, C. G. M., H34
 Weiner, M. W., H1190
 Weisbrod, R. M., H55
 Weisfeldt, M. L., H1492
 Weiss, H. R., H346, H872
 Weiss, J. L., H1492
 Wendt, D. J., H1178
 Wendt, I. R., H849
 Wesley, R. C., Jr., H1544
 Westcott, J. Y., H751
 Westerhof, N., H1606, H1934
 Westfall, T. C., H1674
 White, D. J., H309
 Willette, R. N., H1688, H1835
 Williams, J. F., H648
 Williams, S. E., H706, H1667
 Willson, D., H735
 Wilson, G. J., H116
 Wilson, L. B., H1380
 Winn, H. R., H1703
 Wit, A. L., H1826
 Wittenberg, B. A., H1851
 Wixson, S. K., H324
 Woledge, R. C., H1601
 Wolin, M. S., H1056
 Wolpers, H. G., H167
 Wong, W.-H., H1022
 Wood, K. S., H1813
 Woolley, G., H849
 Wu, J., H1842
 Wurster, R. D., H1504
- Yancey, L., H1171
 Yang, M., H1307
 Yellin, E. L., H457
 Yin, F. C. P., H101, H1869
 Yoshimura, T., H464, H473
 Yoshioka, M., H1134
 Young, I. R., H849
 Yuan, X.-J., H281, H409
- Zeballos, G. A., H1736
 Zhang, X.-M., H497
 Zhu, Q., H835
 Zimmerman, B. G., H543
 Zimmerman, B. J., H390
 Zitnay, K. M., H55
 Zou, C., H835